



chain nodes :

13 14 15 16 17 18 19 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

2-16 5-13 9-15 12-23 13-14 13-15 16-17 17-18 18-19 19-20 19-21  
21-22 23-24

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

2-16 9-15 13-14 13-15 18-19 19-20

exact bonds :

5-13 12-23 16-17 17-18 19-21 21-22 23-24

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS  
18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1292776 CAPLUS  
 DN 144:43311  
 TI Polymerizable liquid crystal composition containing acrylic polymer and optically anisotropic body  
 IN Kawamura, Jyoji; Ono, Yoshiyuki; Suzuki, Yasuyuki; Hayakawa, Hitoshi; Nishiyama, Isa; Watanabe, Yasuyuki; Kuwana, Yasuhiro  
 PA Dainippon Ink and Chemicals, Inc., Japan  
 SO PCT Int. Appl., 58 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005116165	A1	20051208	WO 2005-JP9638	20050526
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2006016599	A2	20060119	JP 2005-150827	20050524
PRAI	JP 2004-161230	A	20040531		
RE.CNT	5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:395415 CAPLUS  
 DN 142:431653  
 TI Barrier coating compositions containing liquid crystalline polymers  
 IN Hammond-Smith, Robert  
 PA Merck Patent G.m.b.H., Germany  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005040307	A1	20050506	WO 2004-EP10397	20040916
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	EP 2003-23462	A	20031018		
RE.CNT	10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:823227 CAPLUS

DN 141:315498  
TI Polymerizable liquid crystal compositions with high nematic isotropic transition temperature and yellowing resistance  
IN Hasebe, Hiroshi; Takeuchi, Kiyofumi  
PA Dainippon Ink and Chemicals, Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 13 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004277487	A2	20041007	JP 2003-67943	20030313
PRAI	JP 2003-67943		20030313		
OS	MARPAT 141:315498				

L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:427652 CAPLUS

DN 140:425082

TI Printable liquid crystal material and pigments for optically variable markings

IN Hammond-smith, Robert; Patrick, John; Riddle, Rodney

PA Merck Patent GmbH, Germany

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 1422283	A1	20040526	EP 2003-23357	20031016
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004155221	A1	20040812	US 2003-698946	20031103
PRAI	EP 2002-24321	A	20021102		
OS	MARPAT 140:425082				

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:139736 CAPLUS

DN 140:189744

TI Substrates showing optical anisotropy, their manufacture, and alignment films for them

IN Hasebe, Hiroshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004054093	A2	20040219	JP 2002-213846	20020723
PRAI	JP 2002-213846		20020723		
OS	MARPAT 140:189744				

L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:794016 CAPLUS

DN 139:314236

TI Polarized optical filter

IN Hasebe, Hiroshi; Takeuchi, Kiyofumi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2003287620	A2	20031010	JP 2002-88269	20020327
PRAI	JP 2002-88269		20020327		

L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:525586 CAPLUS

DN 139:108417

TI Polymerizable liquid crystalline composition and optically anisotropic material using the composition

IN Hasebe, Hiroshi

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2003193053	A2	20030709	JP 2001-394471	20011226
PRAI	JP 2001-394471		20011226		

L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:229267 CAPLUS

DN 131:32209

TI Liquid-Crystalline Polymer Networks: Effect of Crosslinking on the Stability of Macroscopic Molecular Orientation

AU Kurihara, Seiji; Sakamoto, Akihisa; Nonaka, Takamasa

CS Department of Applied Chemistry and Biochemistry Faculty of Engineering, Kumamoto University, Kumamoto, 860-8555, Japan

SO Macromolecules (1999), 32(9), 3150-3153

CODEN: MAMOBX; ISSN: 0024-9297

PB American Chemical Society

DT Journal

LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT